

## GAYATHRI KOTA

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### SUMMARY

Dedicated Computer Science undergraduate at Arizona State University with a 4.0 GPA and three semesters of experience as an Undergraduate Teaching Assistant. Proficient in Java, Python, C++, JavaScript, and MATLAB, with strong software engineering and web development skills. Passionate about developing innovative software solutions and enhancing user experiences, seeking opportunities to contribute to a dynamic team.

### EDUCATION

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**Bachelor's in computer science** Graduating DEC 2026  
Arizona State University, Tempe, AZ 4.0 GPA  
Ira A. Fulton Schools of Engineering  
Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Software Engineering Principles, Operating Systems, Computer Networks

### TECHNICAL SKILLS

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**Programming Languages:** Java, Python, JavaScript, C, C++, Linux

**Web Development:** Django, React.js, HTML, CSS

**Tools & Platforms:** GitHub, Visual Studio, MATLAB, Visual Studio Code, Wireshark, XACL, Microsoft O365 tools

**Databases:** MySQL

**Certifications:** JavaScript Certification – JetBrains (Hyperskill), Code Chef Certification – Problem Solving in Python

### PROFESSIONAL EXPERIENCE

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**Undergraduate Teaching Assistant for CSE 205 Ira A. Fulton Schools of Engineering at ASU, Tempe** JAN 2024 – MAY 2024

- Led lab sessions and graded assignments to enhance understanding of object-oriented programming and data structures, providing personalized support and maintaining consistent grading standards.

**Undergraduate Teaching Assistant for FSE100, Ira A. Fulton Schools of Engineering at ASU, Tempe** AUG 2023 – DEC 2023

- Streamlined course operations and provided targeted feedback, enhancing learning for over 100 students, and improving comprehension of fundamental engineering concepts.

**Undergraduate Teaching Assistant for ASU101, Ira A. Fulton Schools of Engineering at ASU, Tempe** AUG 2023 – DEC 2023

- Led cross-functional student teams with effective mentorship, optimizing course delivery through standardized processes to ensure high-quality educational outcomes.

**Lab Safety Specialist, School of Molecular Sciences, Arizona State University Tempe, AZ** AUG 2023 – Current

- Conducted inspections of building systems, maintained preventive maintenance records, and resolved technical issues independently while ensuring safety protocols.

### ACADEMIC PROJECTS

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**Raspberry Pi and Autonomous Robotics Projects** Spring 2023 – Fall 2023

Developed a smart jacket using Raspberry Pi, integrating temperature and motion sensors, programmable LEDs, and wireless connectivity, allowing interactive responses to environmental changes and remote customization via a mobile app. Additionally, designed and built an autonomous small-scale vehicle using LEGO Mindstorms, enabling self-driving capabilities with ultrasonic sensors to navigate a predefined path and avoid obstacles in real time.

**Development of a Secure Help System for CSE 360 Students Using JavaFX and Java** Fall 2024

Collaborated in developing a comprehensive help system for CSE 360 students, focusing on implementing secure, role-based access control using JavaFX and Java. Designed and developed a user-friendly interface and backend functionality to support roles such as Admin, Student, and Instructor. Integrated features like secure password management, personalized learning resources, and a feedback mechanism, ensuring the system catered to varying levels of programming experience. Utilized UML diagrams for architecture and design planning, implemented JUnit test cases, and conducted thorough technical and user-focused screencasts to demonstrate system functionality.

### Achievements

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- Awarded the New American University (NAMU) Scholarship.
  - Consistently placed on the Dean's List for three semesters.
  - Received the SUN Award and an Excellence Award for consecutive service as an undergraduate teaching assistant (UGTA).